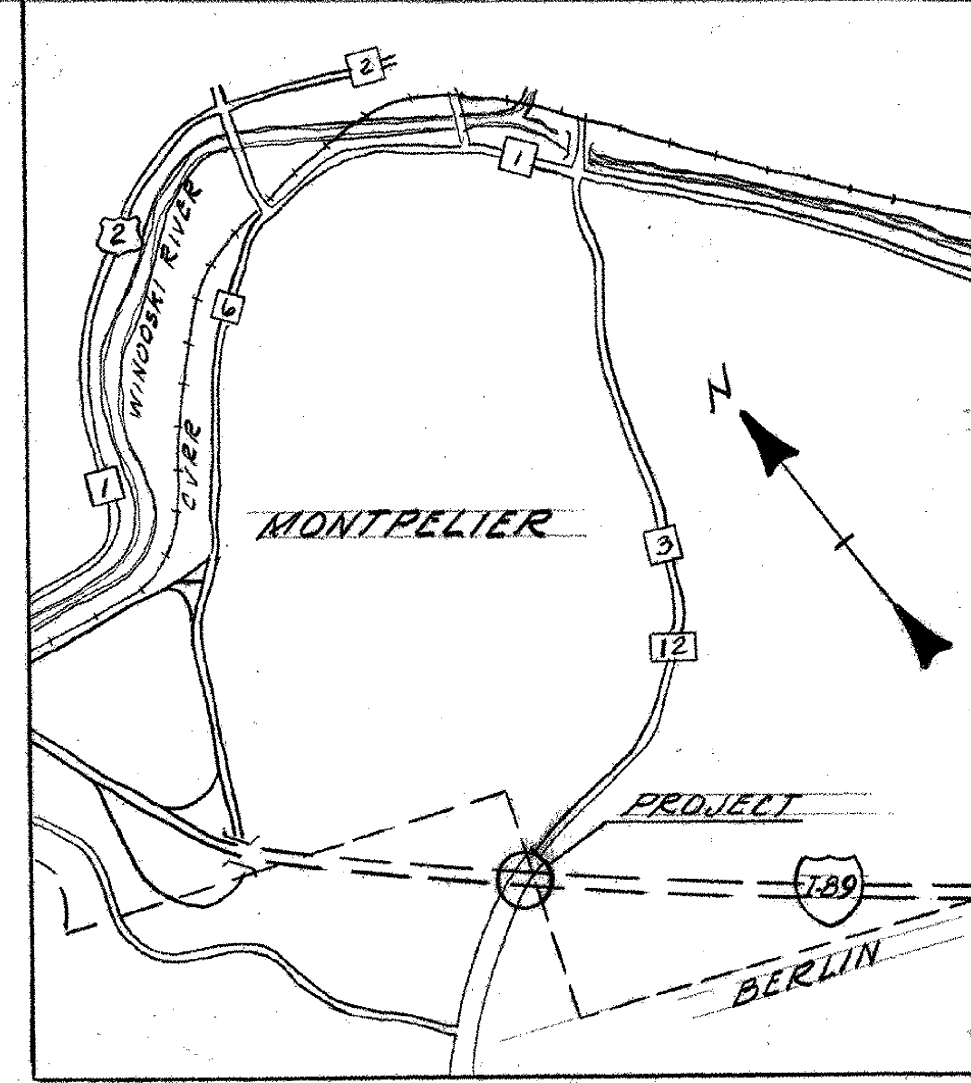


**NOTES:--**

- 1- For General Notes and allowable design stresses see SCB-DI-67.
- 2- For additional details of superstructure see Br. 406.
- 3- For details of railing see SB-R1-64 & SB-R2-65.



HIGHWAY NO. I-89 NAME OF HIGHWAY Interstate  
 STRUCTURE NO. \_\_\_\_\_ COUNTY Washington TOWNS Berlin & Montpelier  
 PROJECT NO. I-89-1(12) LOCATION I-89 over VT. RTE. 12

**EXISTING STRUCTURE**

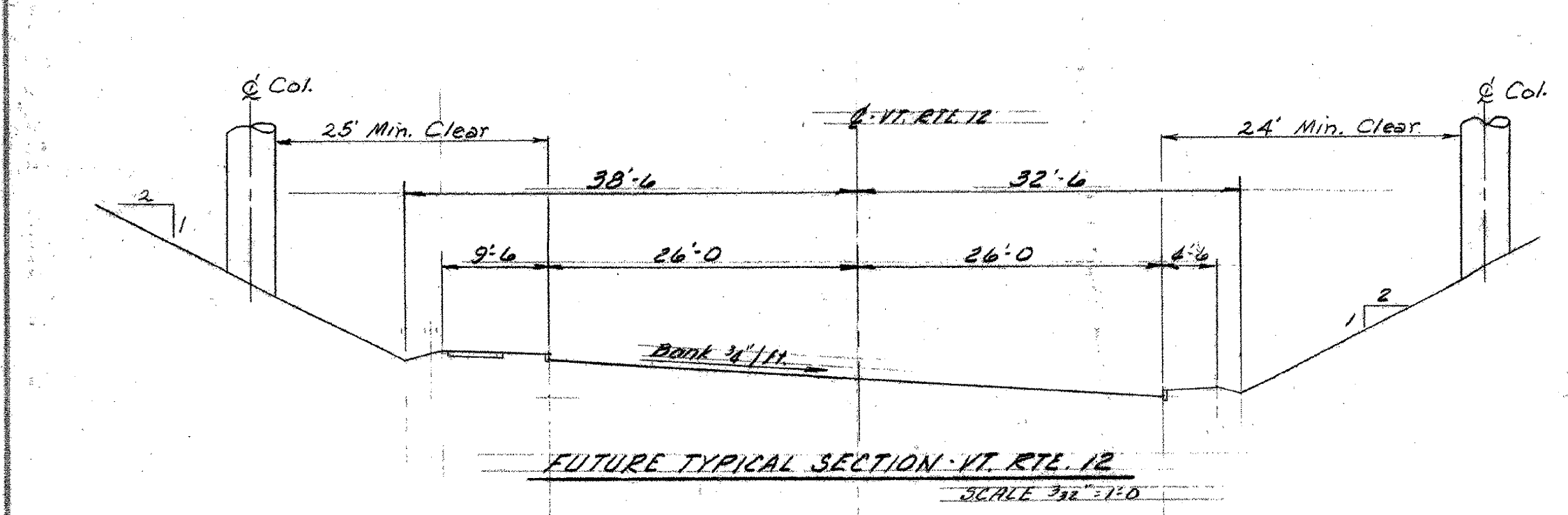
- 1 RATED LOADING OF EXISTING STRUCTURE \_\_\_\_\_
- 2 TYPE OF EXISTING STRUCTURE \_\_\_\_\_
- 3 UNDERCLEARANCE ELEVATION OF EXISTING STRUCTURE \_\_\_\_\_
- 4 WHAT DISPOSITION SHOULD BE MADE OF EXISTING STRUCTURE? \_\_\_\_\_ COST OF REMOVAL \_\_\_\_\_
- 5 SHOULD EXISTING STRUCTURE BE USED TO MAINTAIN TRAFFIC DURING CONSTRUCTION OF NEW STRUCTURE? \_\_\_\_\_
- 6 SHOULD NEW TEMPORARY STRUCTURE BE BUILT? \_\_\_\_\_
- 7 ORDINARY HIGH WATER SURFACE ELEV. AT EXISTING STRUCTURE \_\_\_\_\_ WATERWAY TO ORDINARY H.W. \_\_\_\_\_
- 8 EXTREME HIGH WATER AT EXISTING STRUCTURE \_\_\_\_\_ WATERWAY TO EXTREME H.W. \_\_\_\_\_
- 9 SPAN OF EXISTING BRIDGE UPSTREAM \_\_\_\_\_ WATERWAY TO EXTREME H.W. \_\_\_\_\_
- 10 SPAN OF EXISTING BRIDGE DOWNSTREAM \_\_\_\_\_ WATERWAY TO EXTREME H.W. \_\_\_\_\_
- 11 TYPE OF FOUNDATION UNDER EXISTING ABUTMENTS \_\_\_\_\_
- 12 DOES ALL WATER AT FLOOD ELEVATION PASS THROUGH EXISTING STRUCTURE? \_\_\_\_\_
- 13 IF NOT AT WHAT ELEVATION IS RELIEF AFFORDED? \_\_\_\_\_
- 14 ADDITIONAL WATERWAY AREA PROVIDED \_\_\_\_\_

**NEW STRUCTURE**

- 1 RECOMMENDED TYPE OF STRUCTURE Simple Composite A. Girders
- 2 RECOMMENDED CLEAR SPAN OR SPANS 145' - 145' - 145' c.c. Bearings
- 3 MEASURED PARALLEL TO & NEW HIGHWAY \_\_\_\_\_
- 4 MEASURED AT RIGHT ANGLES TO & STREAM \_\_\_\_\_
- 5 ARE THERE OBJECTIONS TO A PIER IN THE STREAM? ANSWER YES OR NO \_\_\_\_\_
- 6 ORDINARY HIGH WATER ELEVATION AT NEW STRUCTURE \_\_\_\_\_
- 7 EXTREME HIGH WATER ELEVATION AT NEW STRUCTURE \_\_\_\_\_ SOURCE OF INFORMATION \_\_\_\_\_
- 8 IS ALL WATER INTENDED TO PASS THROUGH NEW STRUCTURE? \_\_\_\_\_
- 9 DOES STREAM REACH ITS MAXIMUM HIGH WATER ELEVATION RAPIDLY? \_\_\_\_\_ IS ORDINARY RISE RAPID? \_\_\_\_\_
- 10 LOW WATER ELEVATION AT NEW STRUCTURE \_\_\_\_\_
- 11 DRAINAGE AREA IN ACRES ABOVE STRUCTURE \_\_\_\_\_ CHARACTER OF TERRAIN \_\_\_\_\_
- 12 IS STREAM EVER DRY \_\_\_\_\_
- 13 VELOCITY OF STREAM AT HIGH WATER STAGE \_\_\_\_\_ ESTIMATED DISCHARGE \_\_\_\_\_
- 14 AREA FULL OPENING \_\_\_\_\_ AREA BELOW ORDINARY H.W. \_\_\_\_\_
- 15 CHARACTER OF SCOUR \_\_\_\_\_ DRIFT \_\_\_\_\_ ICE \_\_\_\_\_
- 16 ESTIMATED DRAINAGE AREA ABOVE NATURAL OR ARTIFICIAL STORAGE \_\_\_\_\_
- 17 VERTICAL CLEARANCE ABOVE FLOOD ELEVATION \_\_\_\_\_
- 18 ARE SIDEWALKS REQUIRED? IF SO ON WHAT SIDE? No BOTH SIDES \_\_\_\_\_
- 19 RECOMMENDED TYPE OF PAVEMENT Reinforced concrete with 2" bituminous surface
- 20 TRAFFIC TO BE MAINTAINED UNDER ITEM NO. III ONE OR TWO WAYS 2 PROBABLE COST \_\_\_\_\_
- 21 PROBABLE COST OF CLEARING AND GRUBBING STREAM CHANNEL AT STRUCTURE SITE \_\_\_\_\_
- 22 SHOULD PROVISIONS BE MADE FOR PUBLIC UTILITIES? No
- 23 ESTIMATED ALLOWABLE LOAD ON FOUNDATIONS 45 Tons/17' File SHOULD PILES BE USED? Yes EST. LGTH. See Table

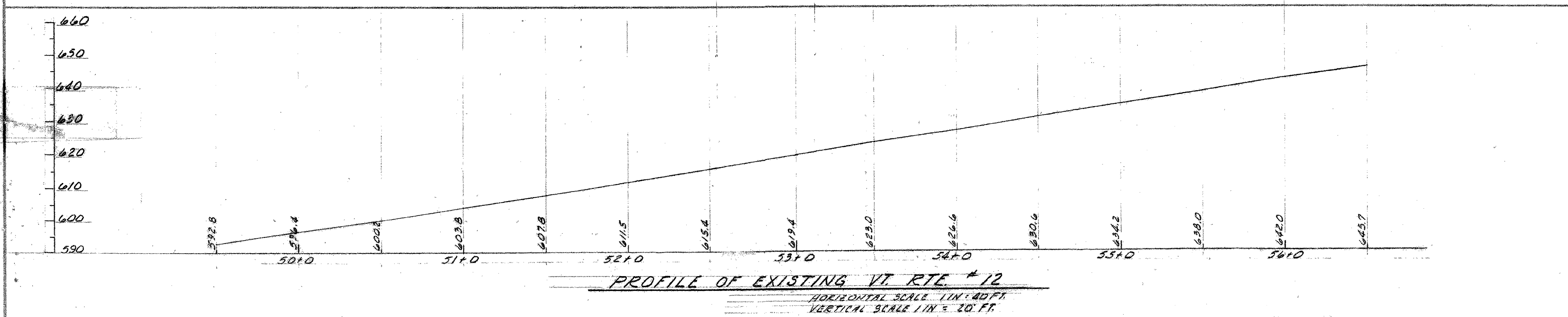
**FOUNDATION INFORMATION**

OBTAINED FOR DESIGN PURPOSES ONLY, AND THE STATE ASSUMES NO RESPONSIBILITY WHATSOEVER FOR THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN. BOULDERS MAY BE ENCOUNTERED AT ANY PIER OR ABUTMENT LOCATION.



**ESTIMATED PILE LENGTHS (12 B.P. 53)**

Abut. No. 1	50'
Abut. No. 2	25'
Abut. No. 3	55'
Abut. No. 4	40'
Pier No. 1	35'
Pier No. 2	25'
Pier No. 3	30'
Pier No. 4	30'



RECOMMENDED FOR APPROVAL R. H. Arnold 6/6/67  
 CHIEF ENGINEER DATE

RECOMMENDED FOR APPROVAL W. H. O'Connell 6/5/67  
 BRIDGE ENGINEER DATE

RECOMMENDED FOR APPROVAL E. H. O'Connell 6/5/67  
 ASST. CHIEF ENGINEER DATE

APPROVED BY: R. H. Arnold 6/6/67  
 CHIEF ENGINEER DATE

THIS SHEET FOR REFERENCE ONLY  
 BERLIN 1M 089-1(20)  
 BRIDGES 40 N&S  
 SHEET 82 OF 104

STATE OF VERMONT  
 DEPARTMENT OF HIGHWAYS

INTERSTATE IN THE TOWNS OF  
BERLIN & MONTPELIER

ROUTE NO I-89 STA. 193+50  
I-89 OVER VT. RTE. 12

PRELIMINARY INFORMATION

SURVEYED BY E. H. O'Connell CHECKED BY R. H. Arnold SCALE As Shown  
 DRAWN BY E. H. O'Connell IN CHARGE R. H. Arnold DATE 6/6/67

PROJECT NO. I-89-1(12) SHEET 153 OF 197  
 BR. 402